The ADIC

VirOp Version 1.1 for ADSM Release Notes

Advanced Digital Information Corp

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Virtual Operator (VirOp) Version 1.1 Release Notes

This release note covers the initial release of the VirOP software Version 1.1. If questions arise about any of these notes, call the ADIC Technical Assistance Center at the appropriate number:

- USA 1-800-827-3822
- Germany / Africa 00.800.9999.3822
- France 33.1.3087.5300

Feature Enhancements

There are a number of changes to the VirOp software, mostly to improve its reliability. The main feature enhancements are:

- Support for AIT drives
- Support for 3590 Magstar drives
- Removal of unnecessary drive eject in normal dismount processing
- Timestamped and pid tagged log messages
- Eject all mounted drives at library initialization to recover cleanly if ADSM aborts.
- Recover if ADSM closes stdin stream during batch query
- Continue to attempt a dismount request if the AMU / DAS is down or media hasn't appeared at drive face for a fixed period (15 minutes).
- ADSM eject requests treated as hard ejects, freeing the slot
- Remove some unnecessary sleeps
- If a mount scratch fails as a result of the scratch volume not being in the library the volume is not returned to the scratch pool.
- Improved logic and diagnostics in the scratch processing.
- Remove the *drmsetup*, *gcheckin*, *gchechout*, *geject*, and *ginsert* scripts for less complications.

Requirements

This is the initial version of VirOp, and does not require any previous versions. Future versions of VirOp will be able to replace previously installed versions.

The following software releases are required, depending on the platform:

Table 1-1 Software Release to Platform Requirements

Software	Version
AIX	AIX 4.1 or higher
ADSM	2 with PTF level 15, or higher version
DAS	1.30C7 or higher
AMU	2.40 or higher

Installation and Configuration

The following two sections detail the installation and configuration of the VirOp version 1.1 software.

Installation

The distribution files for the VirOp software are contained within a tar archive file. The tar file consists of a *Readme* text file, the VirOp executable, a setup script, and a utils directory of scripts. Procedures are listed to extract the file on either a UNIX machine or a PC.

All previous versions of the VirOp software will be overwritten. Manually save the old version of the VirOp software if needed.

Information on the diskette will tell you weather you can directly use the **tar** command to copy the contents to the installation directory or not. If this information is not on the diskette, the diskette contains a tar-file which can be copied from a PC with ftp, to the installation directory

To extract these files from a UNIX machine, proceed as follows:

Step 1 Create the directory `/usr/local/virop`

Step 2 Create the directory `/usr/local/aci` if it does not already exist. This directory is where the ACI is installed. For further information, refer to *The DAS Administration Guide*.

`/usr/local/aci` is required

Step 3 Place the diskette in the UNIX machine.

Step 4 Change to the directory `/usr/local/virop`

Step 5 Use the tar extract command **tar -xvf /dev/...** where */dev/...* is the file name where the diskette is mounted.

To extract these files from a PC, proceed as follows:

Step 1 Create the directory `/usr/local/virop`

Step 2 Create the directory /usr/local/aci if it does not already exist. The directory is where the ACI is installed. For further information, refer to *The DAS Administration Guide.*

`/usr/local/aci` is required

Step 3 Place the diskette in the PC.

Step 4 Copy the file to the desired directory.

Step 5 Change to the directory.

Step 6 On the PC, use the **FTP** command to put the tar file on the UNIX machine at the `/usr/local/virop` directory.

Step 7 On the UNIX machine, use the tar extract command **tar -xvf** *tarfile.*

Run the setup script to step through the stages of installation and configuration of the VirOp software.

If the installation steps are followed, the setup script is located in the `usr/local/virop` directory.

If you running AIX between version 4.1 and 4.2, replace virop_debug and virop_nodebug in `/usr/local/bin` with virop_debug_41 and no_debug_41 from `/usr/local/virop/bin`. Also, change the softlink 'virop' to virop_nodebug_41.

If any problems are experienced which are not resolved, contact ATAC.

Configuration

Step 1 Issue the *setup* script.

Step 2 Choose the `Install` option.

Step 3 Choose the `Configure Drives` option and follow the instructions. For the drive name, use the AMU description drive name.

Step 4 Choose the `Configure Libraries` option and follow the instructions. Libraryname is the same as used in ADSM; DAS_SERVER is the hostname where DAS-Server is installed.

Step 5 Allocate the drives which ADSM should use. (Refer to the **dasadmin allocd** command in the *DAS Administration Guide*.)

Step 6 If scratch handling is used, volumes must be defined to the default scratch pool of DAS.

a. Configure **ALL** for the scratchpool in the clientstatement of the DAS config file.

b. There are two ways to define volumes to a default scratch pool:

1. Use the dasdmin commands. (Refer to the *DAS Administration Guide*.)

2. Use the *label* script with the *-s* option. (Refer to the *VirOp Administration Guide*.)

Step 7 Configure the clientstatement in the DAS config file. (Refer to the *DAS Administration Guide*.)

Virtual Operator (VirOp) Version 1.0 Release Notes

This release note covers the initial release of the VirOP software Version 1.0. If questions arise about any of these notes, call the ADIC Technical Assistance Center at the appropriate number:

- USA 1-800-827-3822
- Germany / Africa 00.800.9999.3822
- France 33.1.3087.5300

Features

For detailed descriptions of these feature, refer to the *VirOp Administrative Guide.*

- Supports the External Media Management (EMM) commands. Refer to *ADSM Administration Guide.*
  - **INITIALIZE**
  - **MOUNT**
  - **DISMOUNT**
  - **RELEASE**
  - **EJECT**
  - **QUERY** volume
  - Batch Processing
- Supports scratch handling for DAS
  - Automatically sets the scratch volsers during labeling with the *label* script and the definition of the volumes to ADSM with the *gcheckin* script.
  - Issues a scratch mount if no volser are define in the storage pool or the defined volsers in the storage pool are full.
  - If the volume or its data is deleted, automatically sets the volume back to scratch.
- Supports the ADSM labeling mechanism
  - Uses the *label* script to support the **dsmlabel** command. During labeling, the label script can automatically label a range of volsers and can set the volser to scratch.
- Defines volumes to ADSM with the *gcheckin* script.
- Supports the ADSM **CHECKOUT** command with the *gcheckout* script.
- Supports the DAS **EJECT** command with the *geject* script.

- Supports the DAS **INSERT** command with the *ginsert* script.

Requirements

This is the initial version of VirOp, and does not require any previous versions. Future versions of VirOp will be able to replace previously installed versions.

The following software releases are required, depending on the platform:

Table 1-1 Software Release to Platform Requirements

Software	Version
AIX	AIX 4.14 or higher
SOLARIS	Solaris 2.51 or higher
ADSM	2 with PTF level 15, or higher version
DAS	1.30C7 or higher
AMU	2.40 or higher

Installation and Configuration

The following two sections detail the installation and configuration of the VirOp software.

Installation

The VirOp consists of a Readme text file, the virop executable, a setup script, and a utils directory of scripts.

Perform the following steps to install VirOp.

Information on the diskette will tell you weather you can directly use the **tar** command to copy the contents to the installation directory or not. If this information is not on the diskette, the diskette contains a tar-file which can be copied from a PC with ftp, to the installation directory

Step 1 Copy the contents to the installation directory by using the **tar** command.

a. Put the diskette in the floppy of the UNIX machine.

b. Change to the directory `usr/local/aci` . If it does not exist, create it.

c. Copy the contents of the diskette to the installation directory by using **tar -xvf */dev/*...** where '***/dev/***'... is the special file name where the distribution media is mounted.

— or —

a. Put the diskette in the floppy of a PC.

b. Copy it to desired directory.

c. Change to the desired directory.

d. Use ftp to put the tar file to the directory `/user/local/aci` of the UNIX machine where VirOp should be installed at the UNIX machine.

e. Change to the directory `/user/local/aci` and unpack the tar-file by using **tar -xvf** *file*

Step 2 Be sure that ACI is installed in the directory `/user/local/aci` .

Step 3 It is not necessary to reboot your machine.

Running the *setup* script will step you through the stages of installation and configuration of the VirOp.

If you experience any problems which cannot be resolved, please contact the first level support for your ADIC library.

Configuration

Step 1 Issue the *drmsetup* script to generate the right *gcheckin*, *gcheckout*, *ginsert*, and *geject* scripts.

Step 2 Issue the *setup* script.

Step 3 Choose the `Install` option.

Step 4 Choose the `Configure Drives` option and follow the instructions. For the drive name, use the AMU description drive name.

Step 5 Choose the `Configure Libraries` option and follow the instructions. Libraryname is the same as used in ADSM; DAS_SERVER is the hostname where DAS-Server is installed.

Step 6 Allocate the drives which ADSM should use. (Refer to the **dasadmin allocd** command in the *DAS Administration Guide*.)

Step 7 If scratch handling is used, volumes must be defined to the default scratch pool of DAS.

a. Configure **ALL** for the scratchpool in the clientstatement of the DAS config file.

b. There are three ways to define volumes to a default scratch pool:

1. Use the dasdmin commands. (Refer to the *DAS Administration Guide*.)

2. Use the *label* script with the *-s* option. (Refer to the *VirOp Administration Guide*.)

3. Use the *gcheckin* script with the *-s* option. (Refer to the *VirOp Administration Guide*.)

Step 8 Configure the clientstatement in the DAS config file. (Refer to the *DAS Administration Guide*.)

Problem Fixes

Not applicable.

Known Problems

Not applicable.